



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.         | CONFIRMATION NO.       |
|---|-------------|----------------------|-----------------------------|------------------------|
| 10/828,304  | 04/21/2004  | Satoru Ouchi         | 119516                      | 4786                   |
| 25944   | 7590        | 02/05/2008           |                             |                        |
| OLIFF & BERRIDGE, PLC<br>P.O. BOX 320850<br>ALEXANDRIA, VA 22320-4850 |             |                      | EXAMINER<br>UTAMA, ROBERT J |                        |
|   |             |                      | ART UNIT<br>3714            | PAPER NUMBER           |
|   |             |                      | MAIL DATE<br>02/05/2008     | DELIVERY MODE<br>PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/828,304

Applicant(s)

OUCHI, SATORU

Examiner

Robert J. Utama

Art Unit

3714

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 20 November 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 and 17-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 and 17-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. **Claim 1, 8 and 17 rejected under 35 U.S.C. 102(e) as being anticipated by Nishimura et al US 6,752,716.**

**Claim 1 and 8 and 17:** A simulator which imparts vibrations to an operator by driving a vibration mechanism in accordance with a generation of a given simulation state (see Abstract) that comprises of: a simulation calculation section which perform simulation calculation to manipulate a simulator object with an operational input from an object operation section during the simulation (see col. 8:50-35); a vibration control section which drives the vibration mechanism on condition that a predetermined occurrence simulation state has occurred during the simulation based on the operational input from the object operation section (see col. 9:20-30); a vibration condition setting section which receives a vibration condition setting which specifies the vibration occurrence simulation states, by a separate operation input from an operating section for vibration condition setting (see col. 9:50-56); wherein vibration condition setting section performs condition setting process to receive which includes at least vibration pattern in the vibration occurrence simulation state specified by the vibration condition setting (see col. 9:20-30 and 9:60-65) and wherein the vibration mechanism control section drives the vibration mechanism relation to the set of vibration content, when the vibration occurrence simulation state specified by the vibration condition setting occurs (see col. 12:30-45).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claim 2-4, 9-11 and 18-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Nishimura et al US 6,752,716 and in view of Braun 6,300,936.**

**Claim 2 and 9 and 18:** The Nishimura reference fails to provide a teaching of wherein the vibration condition setting performs condition setting processing to display a vibration condition setting image on a display and receive vibration condition setting by an operation input from the operation section for vibration condition to store in a storage section. However, the Braun reference provides a teaching of wherein the vibration condition setting performs condition setting processing to display a vibration condition setting image on a display and receive vibration condition setting by an operation input from the operation section for vibration condition to store in a storage section (see FIG. 5 and col. 17:30-50 and 20:15-27). Therefore, it would have been obvious to include the feature of the vibration condition setting performs condition setting processing to display a vibration condition setting image on a display and receive vibration condition setting by an operation input from the operation section for vibration condition to store in a storage section, as taught by Braun, because it would enable the user to customize the effect of the force feedback to his/her preference.

**Claim 3-4 and 10-11:** The Nishimura reference fails to provide a teaching of wherein a plurality of the vibration occurrence simulation states simultaneously as condition that causes the vibration mechanism to vibrate, the vibration control section synthesizes a plurality of vibration content that has been set by the vibration content section and control the vibration mechanism [claim 3-4] and a teaching of synthesizing a plurality of vibration content and

controlling the vibration when a plurality of simulation states occur simultaneously as the condition that cause the vibration mechanism to vibrate, at the time of driving the vibration mechanism on the condition that the vibration occurrence simulation state has occurred. However, the Braun reference provides a teaching of wherein a plurality of the vibration occurrence simulation states simultaneously as condition that causes the vibration mechanism to vibrate, the vibration control section synthesizes a plurality of vibration content that has been set by the vibration content section and control the vibration mechanism (see col. 17:50-62) and a teaching of synthesizing a plurality of vibration content and controlling the vibration when a plurality of simulation states occur simultaneously as the condition that cause the vibration mechanism to vibrate, at the time of driving the vibration mechanism on the condition that the vibration occurrence simulation state has occurred (see col. 17:50-62). Therefore, it would have been obvious to include the feature of wherein a plurality of the vibration occurrence simulation states simultaneously as condition that causes the vibration mechanism to vibrate, the vibration control section synthesizes a plurality of vibration content that has been set by the vibration content section and control the vibration mechanism as taught by Braun, because it would enable the user to be imparted with a more realistic force simulation (see col. 6:60-65).

**Claim 19-20 and 21-22:** The Nishimura reference does not provide a teaching of having a vibration condition setting that includes vibration intensity and pattern and where the vibration control setting receives setting from a user. However, the Braun reference provides a teaching of having a vibration condition setting that includes vibration intensity and pattern (see FIG 5 and col. 17:30-50) and where the vibration control setting receives setting from a user (see col. 17:30-50). Therefore, it would have been obvious to include the feature of having a vibration condition setting that includes vibration intensity and pattern and where the vibration control setting receives setting from a user, as taught by Braun, because it would enable the user to customize the effect of the force feedback to his/her preference.

5. **Claim 5-7 and 12-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Nishimura et al US 6,752,716 and in view of Braun 6,300,936 and further in view of Braun 6,262,583**

**Claim 5-7 and 12-14:** The combination of Nishimura and Braun fail to provide a teaching of a plurality of the vibration occurrence states occur simultaneously that cause the vibration mechanism to vibrate, the vibration mechanism control section control the vibration mechanism in accordance with degrees of priority assigned to the simulation states.

However, Braun '583 provides a teaching when a plurality of the vibration occurrence states occur simultaneously that cause the vibration mechanism to vibrate, the vibration mechanism control section control the vibration mechanism in accordance with degrees of priority assigned to the simulation states (see Braun '583 col. 26:22-39, col. 27:34-51 and col.26:65-27-22).

Therefore, it would have been obvious for one of ordinary skilled in the art to include the feature of the vibration mechanism control section control the vibration mechanism in accordance with degrees of priority assigned to the simulation states, as taught by Braun 583, because it would enable the simulator to correctly provide force effect to the user (see Braun 583 27: 15-22).

#### ***Response to Arguments***

6. Applicant's arguments with respect to claim 1-22 have been considered but are moot in view of the new ground(s) of rejection.

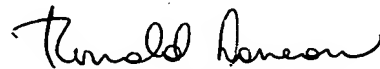
**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. Utama whose telephone number is (571) 272-1676. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pezutto can be reached on (571)272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RU



RONALD LANEAU  
PRIMARY EXAMINER

1/31/08